GenCore version 5.1.3

OM protein - protein search, using sw model

Run on: January 16, 2003, 16:34:37 ; Search Time 52.3286 Seconds
(without alignments)
28.011 Million cell updates/sec

Title: US-09-856-070-23
Perfect score: 55
Sequence: 1 ELMLRLQDYEE 11

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_101002:*
1: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1980.DAT:*
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22: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA2001.DAT:*
23: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	55	100.0	11	22	AAB82039	Human hepreceptor
2	55	100.0	12	22	AAB82038	Human hepreceptor
3	55	100.0	13	22	AAB82037	Human hepreceptor
4	55	100.0	34	22	AAB82040	Human hepreceptor
5	55	100.0	436	22	AAG73954	Human colon cancer
6	55	100.0	586	20	AAY27443	Amino acid sequenc
7	55	100.0	622	22	AAU30004	Novel human secret
8	55	100.0	635	21	AAB53356	Human colon cancer
9	47	85.5	52	22	AAU33060	Novel human secret
10	41	74.5	27	20	AAY27444	Antennapedia inter
11	40	72.7	344	22	ABG29165	Novel human diagno
12	39	70.9	57	22	ABB39680	Peptide #7186 enco
13	39	70.9	57	22	AAM60396	Human brain expres
14	39	70.9	57	22	AAM73032	Human bone marrow
15	39	70.9	57	22	AAM33256	Peptide #7293 enco
16	39	70.9	57	23	ABG42876	Human peptide enco
17	39	70.9	429	22	ABG19048	Novel human diagno
18	39	70.9	429	22	AAG74841	Human colon cancer
19	39	70.9	802	22	ABG19045	Novel human diagno
20	39	70.9	2645	22	ABG20077	Novel human diagno
21	37	67.3	21	23	AAU89857	Insulin/insulin-li
22	36	65.5	284	21	AAG30197	Arabidopsis thalia
23	36	65.5	284	21	AAG49452	Arabidopsis thalia
24	36	65.5	293	21	AAG30196	Arabidopsis thalia
25	36	65.5	293	21	AAG49451	Arabidopsis thalia
26	36	65.5	1200	21	AAB19313	Amino acid sequenc
27	35	63.6	443	22	ABH68491	Drosophila melanog
28	35	63.6	892	22	AAG68171	Alpha-actinin prot
29	34	61.8	176	21	AAG20279	Arabidopsis thalia
30	34	61.8	176	21	AAG43041	Arabidopsis thalia
31	34	61.8	186	21	AAG20278	Arabidopsis thalia
32	34	61.8	186	21	AAG43040	Arabidopsis thalia
33	34	61.8	186	21	AAC53829	Arabidopsis thalia
34	34	61.8	280	21	AAG53828	Arabidopsis thalia
35	34	61.8	333	21	AAG20277	Arabidopsis thalia
36	34	61.8	333	21	AAG43039	Arabidopsis thalia
37	34	61.8	333	21	AAG53827	Arabidopsis thalia
38	34	61.8	333	22	AAB98669	Rice photosensitiv
39	34	61.8	333	23	AAO15492	Beta vulgaris case
40	34	61.8	333	23	AAM52836	Physcomitrella pat
41	34	61.8	405	11	AAP08119	CDX, a MILA involv
42	34	61.8	405	12	AAR13752	GDP Fuc:beta-D-Gal
43	34	61.8	405	12	AAR14464	Protein 7.2 (1.3-f
44	34	61.8	405	13	AAR28840	HeLa cell fucosylt
45	34	61.8	405	15	AAR45937	A glycosyltransfer

ALIGNMENTS

RESULT 1
AAB82039
ID AAB82039 standard, peptide; 11 AA.
XX
AC AAB82039;
XX
DT 13-JUN 2001 (first entry)
XX
DE Human hepreceptor domain A binding peptide Rupe2232.
XX
KW Human; hepreceptor; cytostatic; anti-HIV; antibiotic;
KW neutrophic; immune response inducer; ezrin; infectious diseases; cancer;
KW HIV-related dementia.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Modified-site 9
FT /note= "Optionally phosphorylated"
XX
PN GB2354241-A.
XX
PD 21-MAR-2001.
XX
PF 17 SEP 1999, 99GB-0021881.
XX
PR 17 SEP 1999, 99GB-0021881.
XX
PA (HOLM/) HOLMS R D.
XX
PI Holms RD;
XX
DR WPI; 2001-293287/31.

```
XX
PT   Novel regulatory or unfolding peptides of ezrin that binds to
PT   Hepreceptor, useful for inducing immune response for treating
PT   infectious diseases and cancer -
XX
PS   Claim 26; Page 37; 42pp; English.
XX
CC   The hepreceptor is a novel active site in human ezrin. Ezrin regulates
CC   the structure of the cortical cytoskeleton to control cell surface
CC   topography. The present invention relates to peptides (see AAB82021 to
CC   AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
CC   AAB82046). The hepreceptor binding peptides are useful for inducing
CC   immune response, and for treating infectious diseases, cancer and
CC   HIV-related dementia. The present peptide binds to domain A of the
CC   hepreceptor (AAB82019).
XX
SQ   Sequence   11 AA;

  Query Match             100.0%;  Score 55;  DB 22;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 0.0043;
  Matches   11;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ELMLRLQDYEE 11
           ||||||||||||
Db       1 ELMLRLQDYEE 11


RESULT 2
AAB82038
ID   AAB82038 standard; peptide; 12 AA.
XX
AC   AAB82038;
XX
DT   14-JUN-2001  (first entry)
XX
DE   Human hepreceptor domain A binding peptide Rupe2132.
XX
KW   Human; hepreceptor; cytostatic; anti-HIV; antibiotic;
KW   nootropic; immune response inducer; ezrin; infectious diseases; cancer;
KW   HIV related dementia.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Modified-site   10
FT                   /note- "Optionally phosphorylated"
XX
PN   GB2354241-A.
XX
PD   21-MAR-2001.
XX
PF   17-SEP-1999;   99GB-0021881.
XX
PR   17-SEP-1999;   99GB-0021881.
XX
PA   (HOLM/) HOLMS R D.
XX
PI   Holms RD;
XX
DR   WPI; 2001-293287/31.
XX
PT   Novel regulatory or unfolding peptides of ezrin that binds to
PT   Hepreceptor, useful for inducing immune response for treating
PT   infectious diseases and cancer -
XX
PS   Claim 24; Page 36; 42pp; English.
XX
CC   The hepreceptor is a novel active site in human ezrin. Ezrin regulates
CC   the structure of the cortical cytoskeleton to control cell surface
CC   topography. The present invention relates to peptides (see AAB82021 to
CC   AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
CC   AAB82046). The hepreceptor binding peptides are useful for inducing
CC   immune response, and for treating infectious diseases, cancer and
CC   HIV related dementia. The present peptide binds to domain A of the
CC   hepreceptor (AAB82019).
XX
SQ   Sequence   12 AA;

  Query Match             100.0%;  Score 55;  DB 22;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 0.0047;
  Matches   11;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ELMLRLQDYEE 11
           ||||||||||||
Db       2 ELMLRLQDYEE 12


RESULT 3
AAB82037
ID   AAB82037 standard; peptide; 13 AA.
XX
AC   AAB82037;
XX
DT   13-JUN-2001  (first entry)
XX
DE   Human hepreceptor domain A binding peptide Rupe2032.
XX
KW   Human; hepreceptor; cytostatic; anti-HIV; antibiotic;
KW   nootropic; immune response inducer; ezrin; infectious diseases; cancer;
KW   HIV-related dementia.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Modified-site   11
FT                   /note- "Optionally phosphorylated"
XX
PN   GB2354241-A.
XX
PD   21-MAR-2001.
XX
PF   17-SEP-1999;   99GB-0021881.
XX
PR   17-SEP-1999;   99GB-0021881.
XX
PA   (HOLM/) HOLMS R D.
XX
PI   Holms RD;
XX
DR   WPI; 2001-293287/31.
XX
PT   Novel regulatory or unfolding peptides of ezrin that binds to
PT   Hepreceptor, useful for inducing immune response for treating
PT   infectious diseases and cancer -
XX
PS   Claim 22; Page 36; 42pp; English.
XX
CC   The hepreceptor is a novel active site in human ezrin. Ezrin regulates
CC   the structure of the cortical cytoskeleton to control cell surface
CC   topography. The present invention relates to peptides (see AAB82021 to
CC   AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
CC   AAB82046). The hepreceptor binding peptides are useful for inducing
CC   immune response, and for treating infectious diseases, cancer and
CC   HIV related dementia. The present peptide binds to domain A of the
CC   hepreceptor (AAB82019).
XX
SQ   Sequence   13 AA;

  Query Match             100.0%;  Score 55;  DB 22;  Length 13;
  Best Local Similarity   100.0%;  Pred. No. 0.0051;
  Matches   11;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ELMLRLQDYEE 11
           ||||||||||||
Db       3 ELMLRLQDYEE 13
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RESULT 4
AAB82020
ID   AAB82020 standard; peptide; 34 AA.
XX
AC   AAB82020;
XX
DT   13-JUN-2001  (first entry)
XX
DE   Human hepreceptor domain B.
XX
KW   Human; hepreceptor domain B; cytostatic; anti-HIV; antibiotic;
KW   nootropic, immune response inducer, ezrin, infectious diseases, cancer;
KW   HIV-related dementia.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Modified-site   14
FT                   /note= "Optionally phosphorylated"
XX
PN   GB2354241-A.
XX
PD   21-MAR-2001.
XX
PF   17-SEP-1999;   99GB-0021881.
XX
PR   17-SEP-1999;   99GB-0021881.
XX
PA   (HOLM/) HOLMS R D.
XX
PI   Holms RD;
XX
DR   WPI; 2001 293287/31
XX
PT   Novel regulatory or unfolding peptides of ezrin that binds to
PT   Hepreceptor, useful for inducing immune response for treating
PT   infectious diseases and cancer
XX
PS   Claim 5; Page 36; 42pp; English.
XX
CC   The present sequence is domain B of human hepreceptor of human ezrin. The
CC   hepreceptor is a novel active site in human ezrin. Ezrin regulates the
CC   structure of the cortical cytoskeleton to control cell surface
CC   topography. The present invention relates to peptides (see AAB82021 to
CC   AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
CC   AAB82046). The hepreceptor binding peptides are useful for inducing
CC   immune response, and for treating infectious diseases, cancer and
CC   HIV-related dementia. The present sequence assembles into two
CC   anti-parallel helices with hepreceptor domain A (see AAB82019).
XX
SQ   Sequence   34 AA;

  Query Match             100.0%;  Score 55;  DB 22;  Length 34;
  Best Local Similarity   100.0%;  Pred. No. 0.014;
  Matches   11;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ELMLRLQDYEE 11
           ||||||||||||
Db       6 ELMLRLQDYEE 16


RESULT 5
AAG73954
ID   AAG73954 standard; Protein; 436 AA.
XX
AC   AAG73954;
XX
DT   03-SEP-2001  (first entry)
XX
DE   Human colon cancer antigen protein SEQ ID NO:4718.
XX
KW   Human; colon cancer; colon cancer antigen; diagnosis; detection;
KW   colorectal carcinoma.
XX
OS   Homo sapiens.
XX
PN   WO200122920-A2.
XX
PD   05-APR-2001.
XX
PF   28-SEP-2000; 2000WO-US26524.
XX
PR   29-SEP-1999;   99US-0157137.
PR   03-NOV-1999;   99US-0163280.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Ruben SM,  Barash SC,  Birse CE,  Rosen CA;
XX
DR   WPI; 2001 235357/24.
DR   N-PSDB; AAH33385.
XX
PT   Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
PT   useful for preventing, diagnosing and/or treating colorectal cancers -
XX
PS   Claim 11; Page 6520-6521; 9803pp; English.
XX
CC   AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
CC   cancer-associated nucleic acid molecules (N) and proteins (P), where
CC   the proteins are collectively known as colon cancer antigens. The colon
CC   cancer antigens have cytostatic activity and can be used in gene
CC   therapy and vaccine production. N and P may be used in the prevention,
CC   diagnosis and treatment of diseases associated with inappropriate P
CC   expression. For example, N and P may be used to treat disorders
CC   associated with decreased expression by rectifying mutations or deletions
CC   in a patient's genome that affect the activity of P by expressing
CC   inactive proteins or to supplement the patient's own production of P.
CC   Additionally, N may be used to produce the colon cancer-associated Ps,
CC   by inserting the nucleic acids into a host cell and culturing the cell
CC   to express the proteins. N and P can be used in the prevention, diagnosis
CC   and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
CC   and AAB77789 represent sequences used in the exemplification of the
CC   present invention.
CC   N.B. Pages 668 to 687 and page 7853 of the sequence listing were
CC   missing at time of publication, meaning no sequences are present for
CC   SEQ ID NO:1027 to 1052, 7921 and 7922.
XX
SQ   Sequence   436 AA;

  Query Match             100.0%;  Score 55;  DB 22;  Length 436;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches   11;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ELMLRLQDYEE 11
           ||||||||||||
Db     196 ELMLRLQDYEE 206


RESULT 6
AAY27443
ID   AAY27443 standard; protein; 586 AA.
XX
AC   AAY27443;
XX
DT   26-NOV-1999  (first entry)
XX
DE   Amino acid sequence of human ezrin polypeptide.
XX
KW   Pharmaceutical; ezrin; mutant; tumor; metastasis; human.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Misc-difference 354
FT                   /note= "the Tyr at this position can be mutated
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PT                              (preferably to a Phe) to construct an
PT                              ezrin mutant of the invention"
XX
PN   W09947150-A2.
XX
PD   23-SEP-1999.
XX
PF   18-MAR-1999;   99WO-EP02054.
XX
PR   18-MAR-1998;   98US-0040725.
XX
PA   (CURI-) INST CURIE.
PA   (CNRS ) CNRS CENT NAT RECH SCI.
XX
PI   Arpin M,  Crepaldi I,  Gautreau A,  Louvard D;
XX
DR   WPI; 1999-561851/47.
XX
PT   New composition for prevention and treatment of tumors and metastasis
PT   -
XX
PS   Example 1; Fig 1; 31pp; English.
XX
CC   The invention provides a pharmaceutical composition containing ezrin
CC   protein, RNA or DNA mutated on tyrosine 353, or a functional fragment
CC   or derivative of the ezrin mutant. The new composition is useful for
CC   prevention and/or treatment of tumors, and especially metastasis. The
CC   present sequence represents the amino acid sequence of human ezrin
CC   (before the maturation by deletion of the first amino acid Met).
XX
SQ   Sequence   586 AA;

  Query Match             100.0%;  Score 55;  DB 20;  Length 586;
  Best Local Similarity   100.0%;  Pred. No. 0.25;
  Matches   11;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ELMLRLQDYEE 11
           ||||||||||||
Db     346 ELMLRLQDYEE 356


RESULT 7
AAU30004
ID   AAU30004 standard; Protein; 622 AA.
XX
AC   AAU30004;
XX
DT   18-DEC-2001  (first entry)
XX
DE   Novel human secreted protein #495.
XX
KW   Human; vaccination; gene therapy; nutritional supplement;
KW   stem cell proliferation; haematopoiesis; nerve tissue regeneration;
KW   immune suppression; immune stimulation; anti-inflammatory; leukaemia.
XX
OS   Homo sapiens.
XX
PN   WO200179449 A2.
XX
PD   25 OCT 2001.
XX
PF   16-APR-2001; 2001WO-US08656.
XX
PR   18-APR-2000; 2000US-0552929.
PR   26-JAN-2001; 2001US-0770160.
XX
PA   (HYSE-) HYSEQ INC.
XX
PI   Tang YT,  Liu C,  Drmanac RT;
XX
DR   WPI; 2001-611725/70.
XX
PT   Nucleic acids encoding a range of human polypeptides, useful in genetic
PT   vaccination, testing and therapy -
XX
PS   Claim 20; Page 219; 765pp; English.
XX
CC   The invention relates to novel human secreted polypeptides. The
CC   polypeptides and antibodies to the polypeptides are useful for
CC   determining the presence of or predisposition to a disease associated
CC   with altered levels of polypeptide. The polypeptides are also useful for
CC   identifying agents (agonists and antagonists) that bind to them. Cells
CC   expressing the proteins are useful for identifying a therapeutic agent
CC   for use in treatment of a pathology related to aberrant expression or
CC   physiological interactions of the polypeptide. Vectors comprising
CC   the nucleic acids encoding the polypeptides and cells genetically
CC   engineered to express them are also useful for producing the proteins.
CC   The proteins are useful in genetic vaccination, testing and
CC   therapy, and can be used as nutritional supplements. They may be used to
CC   increase stem cell proliferation; to regulate haematopoiesis; and in
CC   bone, cartilage, tendon  and/or nerve tissue growth or regeneration;
CC   immune suppression and/or stimulation; as anti-inflammatory agents; and
CC   in treatment of leukaemias. AAU29510-AAU33304 represent the amino acid
CC   sequences of novel human secreted proteins of the invention.
XX
SQ   Sequence   622 AA;

  Query Match             100.0%;  Score 55;  DB 22;  Length 622;
  Best Local Similarity   100.0%;  Pred. No. 0.26;
  Matches   11;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ELMLRLQDYEE 11
           ||||||||||||
Db     382 ELMLRLQDYEE 392


RESULT 8
AAB53356
ID   AAB53356 standard; Protein; 645 AA.
XX
AC   AAB53356;
XX
DT   09-MAR-2001  (first entry)
XX
DE   Human colon cancer antigen protein sequence SEQ ID NO:896.
XX
KW   Human; colon cancer; colon cancer antigen; diagnosis; detection;
KW   identification; cytostatic; cardioactive; neuroprotective; vulnerary;
KW   immunomodulatory; muscular; gynaecological; gastrointestinal;
KW   nephrotropic; antiinfective; antibacterial; gene therapy; wound;
KW   neural disorder; immune system disorder; muscular disorder;
KW   reproductive disorder; gastrointestinal disorder; renal disorder;
KW   infectious disease; cardiovascular disorder.
XX
OS   Homo sapiens.
XX
PN   WO200055351-A1.
XX
PD   21-SEP-2000.
XX
PF   08-MAR-2000; 2000WO-US05883.
XX
PR   12-MAR-1999;   99US-0124270.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Rosen CA,  Ruben SM;
XX
DR   WPI; 2000-587534/55.
DR   N-PSDB; AAC98113.
XX
PT   Colon cancer associated gene sequences, referred to as colon cancer
PT   antigens, useful for the treatment, prevention, and diagnosis of colon
PT   disorders such as colon cancer -
XX
PS   Claim 11; Page 1449-1451; 2104pp; English.
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XX
CC   AAC97991 to AAC98763 encode the human colon cancer associated proteins,
CC   called human colon cancer antigens, given in AAB53234 to AAB54006. The
CC   human colon cancer antigens can have cytostatic, cardioactive, muscular;
CC   neuroprotective, immunomodulatory, gynaecological, gastrointestinal,
CC   vulnerary, nephrotropic, antiinfective and antibacterial activities, and
CC   can be used in gene therapy. The colon cancer antigen polynucleotides,
CC   proteins and antibodies to the proteins are useful for the prevention,
CC   treatment and diagnosis of colon disorders, such as colon cancer. The
CC   polynucleotides may be used in diagnostics and research, such as for
CC   chromosome identification, and as hybridisation probes. The proteins
CC   may also be used to prevent diseases such as neural disorders, immune
CC   system disorders, muscular disorders, reproductive disorders,
CC   gastrointestinal disorders, wounds, renal disorders, infectious
CC   diseases, and cardiovascular disorders. AAC98764 to AAC98772 and
CC   AAB54007 represent sequences used in the exemplification of the present
CC   invention.
XX
SQ   Sequence   635 AA;

  Query Match             100.0%;  Score 55;  DB 21;  Length 635;
  Best Local Similarity   100.0%;  Pred. No. 0.27;
  Matches   11;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ELMLRLQDYEE 11
           ||||||||||| |
Db     395 ELMLRLQDYEE 405


RESULT 9
AAU33060
ID   AAU33060 standard; Protein; 52 AA.
XX
AC   AAU33060;
XX
DT   18-DEC-2001  (first entry)
XX
DE   Novel human secreted protein #3551.
XX
KW   Human; vaccination; gene therapy; nutritional supplement;
KW   stem cell proliferation; haematopoiesis; nerve tissue regeneration;
KW   immune suppression; immune stimulation; anti-inflammatory; leukaemia.
XX
OS   Homo sapiens.
XX
PN   WO200179449-A2.
XX
PD   25-OCT-2001.
XX
PF   16-APR-2001; 2001WO-US08656.
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PF   18-APR-2000; 2000US-0550924
PR   26-JAN-2001; 2001US-0770160.
XX
PA   (HYSE-) HYSEQ INC.
XX
PI   Tang YT,  Liu C,  Drmanac RT;
XX
DR   WPI; 2001-611725/70.
XX
PT   Nucleic acids encoding a range of human polypeptides, useful in genetic
PT   vaccination, testing and therapy -
XX
PS   Claim 20, Page 702, 765pp, English.
XX
CC   The invention relates to novel human secreted polypeptides. The
CC   polypeptides and antibodies to the polypeptides are useful for
CC   determining the presence of or predisposition to a disease associated
CC   with altered levels of polypeptide. The polypeptides are also useful for
CC   identifying agents (agonists and antagonists) that bind to them. Cells
CC   expressing the proteins are useful for identifying a therapeutic agent
CC   for use in treatment of a pathology related to aberrant expression or
CC   physiological interactions of the polypeptide. Vectors comprising
CC   the nucleic acids encoding the polypeptides and cells genetically
CC   engineered to express them are also useful for producing the proteins.
CC   The proteins are useful in genetic vaccination, testing and
CC   therapy, and can be used as nutritional supplements. They may be used to
CC   increase stem cell proliferation; to regulate haematopoiesis; and in
CC   bone, cartilage, tendon and/or nerve tissue growth or regeneration;
CC   immune suppression and/or stimulation, as anti inflammatory agents, and
CC   in treatment of leukaemias. AAU29510 AAU33304 represent the amino acid
CC   sequences of novel human secreted proteins of the invention.
XX
SQ   Sequence   52 AA;

  Query Match             85.5%;  Score 47;  DB 22;  Length 52;
  Best Local Similarity   90.9%;  Pred. No. 0.49;
  Matches   10;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy       1 ELMLRLQDYEE 11
           |||| ||||||
Db      14 ELMLWLQDYEE 24


RESULT 10
AAY27444
ID   AAY27444 standard; peptide; 27 AA.
XX
AC   AAY27444;
XX
DT   26-NOV-1999  (first entry)
XX
DE   Antennapedia internalization sequence in tandem with ezrin fragment.
XX
KW   Pharmaceutical, ezrin, mutant, tumor, antennapedia internalization;
KW   metastasis; human.
XX
OS   Synthetic.
XX
FH   Key             Location/Qualifiers
FT   Modified-site   1
FT                   /note= "biotinylated"
FT   Modified site   22
FT                   /note= "optionally phosphorylated"
XX
PN   WO9947150-A2.
XX
PD   23-SEP-1999.
XX
PF   18-MAR-1999;   99WO-EP02054.
XX
PR   18-MAR-1998;   98US-0040725.
XX
PA   (CURI-) INST CURIE.
PA   (CNRS ) CNRS CENT NAT RECH SCI.
XX
PI   Arpin M,  Crepaldi T,  Gautreau A,  Louvard D;
XX
DR   WPI; 1999-561851/47.
XX
PT   New composition for prevention and treatment of tumors and metastasis
PT   -
XX
PS   Example 5; Page 14; 31pp; English.
XX
CC   The invention provides a pharmaceutical composition containing ezrin
CC   protein, RNA or DNA mutated on tyrosine 353, or a functional fragment
CC   or derivative of the ezrin mutant. The new composition is useful for
CC   prevention and/or treatment of tumors, and especially metastasis. The
CC   present sequence represents an antennapedia internalization sequence in
CC   tandem with an ezrin fragment (residues 348-358). This is used in
CC   experiments of p85 interaction with phosphorylated ezrin peptides.
XX
SQ   Sequence   27 AA;

  Query Match             74.5%;  Score 41;  DB 20;  Length 27;
```

```
  Best Local Similarity   100.0%;  Pred. No. 2.7;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

QY       4 LRLQDYEE 11
           ||||||||
Db      17 LRLQDYEE 24


RESULT 11
ABG29165
ID   ABG29165 standard; Protein; 344 AA.
XX
AC   ABG29165;
XX
DT   13-FEB-2002  (first entry)
XX
DE   Novel human diagnostic protein #29156.
XX
KW   Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW   food supplement; medical imaging; diagnostic; genetic disorder.
XX
OS   Homo sapiens.
XX
PN   WO200175067-A2.
XX
PD   11-OCT-2001.
XX
PF   30-MAR-2001; 2001WO-US08631.
XX
PR   31-MAR-2000; 2000US-0540217.
PR   23-AUG-2000; 2000US-0644167.
XX
PA   (HYSE ) HYSEQ INC.
XX
PI   Drmanac RT,  Liu C,  Tang YT;
XX
DR   WPI; 2001-639362/73.
DR   N-PSDB; AAS93352.
XX
PT   New isolated polynucleotide and encoded polypeptides, useful in
PT   diagnostics, forensics, gene mapping, identification of mutations
PT   responsible for genetic disorders or other traits and to assess
PT   biodiversity
XX
PS   Claim 20; SEQ ID No 59524; 103pp; English.
XX
CC   The invention relates to isolated polynucleotide (I) and
CC   polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC   polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC   and gene mapping, and in recombinant production of (II). The
CC   polynucleotides are also used in diagnostics as expressed sequence tags
CC   for identifying expressed genes. (I) is useful in gene therapy techniques
CC   to restore normal activity of (II) or to treat disease states involving
CC   (II). (II) is useful for generating antibodies against it, detecting or
CC   quantitating a polypeptide in tissue, as molecular weight markers and as
CC   a food supplement. (II) and its binding partners are useful in medical
CC   imaging of sites expressing (II). (I) and (II) are useful for treating
CC   disorders involving aberrant protein expression or biological activity.
CC   The polypeptide and polynucleotide sequences have applications in
CC   diagnostics, forensics, gene mapping, identification of mutations
CC   responsible for genetic disorders or other traits to assess biodiversity
CC   and to produce other types of data and products dependent on DNA and
CC   amino acid sequences. ABG00010-ABG30377 represent novel human
CC   diagnostic amino acid sequences of the invention.
CC   Note: The sequence data for this patent did not appear in the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   344 AA;

  Query Match             72.7%;  Score 40;  DB 22;  Length 344;
  Best Local Similarity   80.0%;  Pred. No. 53;
  Matches    8;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

QY       1 ELMLRLQDYE 10
           ||||| :|||
Db     279 ELMLRQKDYE 288


RESULT 12
ABB39680
ID   ABB39680 standard; Peptide; 57 AA.
XX
AC   ABB39680;
XX
DT   04-FEB-2002  (first entry)
XX
DE   Peptide #7186 encoded by human foetal liver single exon probe.
XX
KW   Human; foetal liver; gene expression; single exon nucleic acid probe.
XX
OS   Homo sapiens.
XX
PN   WO200157277-A2.
XX
PD   09-AUG-2001.
XX
PF   30-JAN-2001; 2001WO-US00669.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-483447/52.
XX
PT   Human genome-derived single exon nucleic acid probes useful for
PT   analyzing gene expression in human fetal liver
XX
PS   Claim 27; SEQ ID NO 32315; 639pp + sequence listing; English.
XX
CC   The invention relates to a single exon nucleic acid probe for
CC   measuring human gene expression in a sample derived from human foetal
CC   liver. The single exon nucleic acid probes may be used for predicting,
CC   measuring and displaying gene expression in samples derived from human
CC   fetal liver. The present sequence is a peptide encoded by a single exon
CC   nucleic acid probe of the invention.
CC   Note: The sequence data for this patent did not form part of the
CC   printed specification, but was obtained in electronic format directly
CC   from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   57 AA;

  Query Match             70.9%;  Score 39;  DB 22;  Length 57;
  Best Local Similarity   72.7%;  Pred. No. 13;
  Matches    8;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

QY       1 ELMLRLQDYEE 11
           ||:||||:| |
Db      18 ELILRLQEYFE 28


RESULT 13
AAM60396
ID   AAM60396 standard; Protein; 57 AA.
XX
AC   AAM60396;
XX
DT   05-NOV-2001  (first entry)
```

XX
DE Human brain expressed single exon probe encoded protein SEQ ID NO: 32501.
XX
KW Human; brain expressed exon; gene expression analysis; probe;
KW microarray, Alzheimer's disease, multiple sclerosis; schizophrenia;
KW epilepsy, cancer.
XX
OS Homo sapiens.
XX
PN WO200157275-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00667.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488446/52.
XX
PT Single exon nucleic acid probes for analyzing gene expression in human
PT brains -
XX
PS Example 4; SEQ ID NO: 32501; 650pp + Sequence Listing; English.
XX
CC The present invention provides a number of single exon nucleic acid
CC probes which are derived from genomic sequences expressed in the human
CC brain. They can be used to measure gene expression in brain cell samples,
CC which may enable the diagnosis and improved treatment of nervous system
CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
CC epilepsy and cancers. The present sequence is a protein encoded by one of
CC the probes of the invention.
XX
SQ Sequence 57 AA;

Query Match 70.9%; Score 39; DB 22; Length 57;
Best Local Similarity 72.7%; Pred. No. 13;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELMLRLQDYEE 11
||:||||:| |
Db 18 ELILRLQEYFE 28

RESULT 14
AAM73032
ID AAM73032 standard; Protein; 57 AA.
XX
AC AAM73032;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human bone marrow expressed probe encoded protein SEQ ID NO: 33338.
XX
KW Human; bone marrow expressed exon; gene expression analysis; probe;
KW microarray, cancer, leukaemia, lymphoma; myeloma.
XX
OS Homo sapiens.
XX
PN WO200157276-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00668.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488900/53.
XX
PT Human genome derived single exon nucleic acid probes useful for
PT analyzing gene expression in human bone marrow -
XX
PS Example 4; SEQ ID NO: 33338; 658pp + Sequence Listing; English.
XX
CC The present invention provides a number of single exon nucleic acid
CC probes which are derived from genomic sequences expressed in the human
CC bone marrow. They can be used to measure gene expression in bone marrow
CC samples, which may enable the improved diagnosis and treatment of cancers
CC such as lymphoma, leukaemia and myeloma. The present sequence is a
CC protein encoded by one of the probes of the invention.
XX
SQ Sequence 57 AA;

Query Match 70.9%; Score 39; DB 22; Length 57;
Best Local Similarity 72.7%; Pred. No. 13;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELMLRLQDYEE 11
||:||||:| |
Db 18 ELILRLQEYFE 28

RESULT 15
AAM33256
ID AAM33256 standard; Protein; 57 AA.
XX
AC AAM33256;
XX
DT 17-OCT-2001 (first entry)
XX
DE Peptide #7293 encoded by probe for measuring placental gene expression.
XX
KW Probe; microarray; human; placenta; antenatal diagnosis;
KW genetic disorder.
XX
OS Homo sapiens.
XX
PN WO200157272-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00663.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488897/53.
XX

PT Human genome derived single exon nucleic acid probes useful for
PT analyzing gene expression in human placenta
XX
PS Claim 27; SEQ ID NO 33525; 654pp; English.
XX
CC The present invention relates to single exon nucleic acid probes (SENP;
CC see AA131315-AA157546). The present sequence is a peptide encoded by one
CC such probe. The probes are useful for producing a microarray for
CC predicting, measuring and displaying gene expression in samples derived
CC from human placenta. The probes are useful for antenatal diagnosis of
CC human genetic disorders.
XX
SQ Sequence 57 AA;

Query Match 70.9%; Score 39; DB 22; Length 57;
Best Local Similarity 72.7%; Pred. No. 13;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```
Qy       1 ELMLRLQDYEE 11
           ||:||||:| |
Db      18 ELILRLQEYFE 28
```

Search completed: January 16, 2004, 16:49:15
Job time : 52.3286 secs